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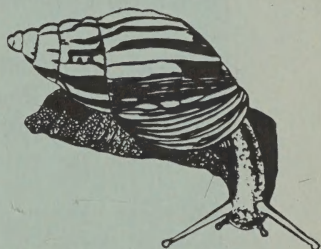
PLANT PEST REPORT

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This publication is distributed weekly to Federal and State agencies, universities, farmers, and others interested in containing or controlling pests in the United States.

Data included in this publication are compiled from reports submitted by cooperating State, Federal and other agricultural and industrial specialists. Accuracy of the reports is not verified prior to publication.

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Correspondence should be directed to:

CPPR

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Plant Protection and Quarantine Programs

Animal and Plant Health Inspection Service

U.S. Department of Agriculture

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Hyattsville, Maryland 20782

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COOPERATIVE PLANT PEST REPORT

Volume 2

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1977

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category. The pest categories are as follows: DISEASES; INSECTS, including
other arthropods; SLUGS AND SNAILS; and WEEDS, including parasitic plants.
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Black stain root disease Verticillad-
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Balsam twig aphid Mindarus abietinus
Balsam woolly aphid Adelges piceae
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Black cherry fruit fly Rhagoletis
fausta
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Carposina niponensis niponensis a car-
 posinid moth 15
Carrot beetle Bothynus gibbosus
Carrot rust fly Psila rosae
Caryedon serratus groundnut bruchid 17

- Casinarina infesta an ichneumonid wasp 548
Cassida rubiginosa a chrysomelid beetle 520 597 601
Catalpa sphinx Ceratonia catalpae
 Cat flea Ctenocephalides felis
 Cattle biting louse Bovicola bovis
 Cattle tail louse Haematopinus quadripertusus
Cecidomyia resinicola a cecidomyiid 223 233
Celama sorghiella sorghum webworm 92
 114 507 659 664 700 719 741 793
 Celery fly Euleia heraclei
Cerambyx sp. a cerambycid beetle 225 734
Ceramica picta zebra caterpillar 466
Ceratitis capitata Mediterranean fruit fly 15 54 64 173 201 285 426 577 679 734 859
Ceratonia catalpae catalpa sphinx 303
Cereal leaf beetle Oulema melanopus
Ceroplastes ceriferus 5 7 14 68 69 72
Ceroplastes cirripediformis barnacle scale 441
Ceroplastes floridensis Florida wax scale 5 14 419 492
Ceroplastes sinensis 197
Cerotoma trifurcata bean leaf beetle 217 245 319 343 345 564 643 700 724 782 799
Ceutorhynchus assimilis cabbage seed-pod weevil 812 815
Ceutorhynchus rapae cabbage curculio 161
Chaetocnema ectypa desert corn flea beetle 560
Chaetocnema pulicaria corn flea beetle 119 214 508
Chalcodermus aeneus cowpea curculio 188
 Cherry fruit fly Rhagoletis cingulata
 Cherry fruitworm Grapholitha packardii
 Chestnut gall wasp Dryocosmus kuriphius
Chilodes maritima a noctuid moth 656
Chilo phragmitellus a pyralid moth 186
Chilo plejadellus rice stalk borer 411
Chilo suppressalis Asiatic rice borer 355 426
 Chinch bug Blissus leucopterus leucopterus
 Chinese rose beetle Adoretus sinicus
Chionaspis caryae an armored scale 871 877
Chionaspis gleditsiae 469 471
Chionaspis nyssae 729 732
Chionaspis pinifoliae pine needle scale 223 233 302 303
Chlorochroa ligata conchuela 639 646 702
Chorioptes bovis a psoroptid mite 62 63
Choristoneura conflictana large aspen tortrix 235
Choristoneura fumiferana spruce budworm 228 302 323 419 442 471 517 538 622
Choristoneura occidentalis western spruce budworm 229 231 232
Choristoneura pinus jack pine budworm 232 367
Choristoneura rosaceana obliquebanded leafroller 246 320
Choristoneura viridis a tortricid moth 232
Chromaphis juglandicola walnut aphid 388
Chrysanthemum aphid Macrosiphoniella sanborni
Chrysanthemum thrips Thrips nigropilosus
Chrysopa sp. a green lacewing 52 306 336 342 349
Chrysopa carnea common green lacewing 162
Chrysops spp. tabanid flies 323 391 570
Chrysops aberrans 570
Chrysops aestuans 570
Chrysops ater 472 887
Chrysops atlanticus 887
Chrysops beameri 887
Chrysops callidus 887
Chrysops calvus 887
Chrysops carbonarius 391
Chrysops celatus 887
Chrysops cincticornis 888
Chrysops cincticornis cincticornis 323
Chrysops cuclux 391 888
Chrysops dacne 888
Chrysops discalis 570
Chrysops excitans 391
Chrysops flavidus 888
Chrysops frigidus 391
Chrysops fulvaster 570
Chrysops geminatus 1/ 570 888
 1/ Also carried as Chrysops geminatus geminatus in Vol. 2.

Chrysops geminatus geminatus
 See Chrysops geminatus
Chrysops indus 888
Chrysops macquarti 888
Chrysops mitis 472
Chrysops montanus 888
Chrysops niger 323 888
Chrysops obsoletus 888
Chrysops reicherti 888
Chrysops shermani 888
Chrysops univittatus 570 706 709 888
Chrysops upsilon 888
Chrysops vittatus 1/ 570 889
Chrysops vittatus floridanus
 See Chrysops vittatus
Chrysops vittatus vittatus 888
Cimbex americana elm sawfly 161 277
Cinara curvipes an aphid 303
Cinara strobili white pine aphid 197
Cinara tujafilina an aphid 873
Circulifer tenellus beet leafhopper 3
 37 51 59 67 87 92 159 169 191 241 269
 291 313 314 379 407 429 481 505 555
 581 689 845 867
Citricola scale Coccus pseudomagnoli-
liarum
Citrus blackfly Aleurocanthus woglumi
Citrus mealybug Planococcus citri
Citrus red mite Panonychus citri
Citrus rust mite Phyllocoptruta olei-
vora
Citrus thrips Scirtothrips citri
Citrus whitefly Dialeurodes citri
Clastoptera achatina pecan spittlebug
 219 301 346 366 418 569
Claybacked cutworm Agrotis gladiaria
Claycolored leafbeetle Anomoea
laticlavata
Clearwinged grasshopper Camnula
pellucida
Cligenes marianensis a lygaeid bug 53
 54
Clouded plant bug Neurocolpus nubilis
Clover head weevil Hypera meles
Clover leaf weevil Hypera punctata
Clover mite Bryobia praetiosa
Clover root curculio Sitona hispidulus
Cnephasia longana omnivorous leaf-tier
 418

Cnephia mutata a black fly 2/
 348 391
Coccinella septempunctata a lady
 beetle 221 306
Coccotorus scutellaris plum gouger
 196
Coccus acutissimus a soft scale 729
Coccus elongatus long brown scale 322
Coccus pseudomagnoliarum citricola
 scale 275
Coccus viridis green scale 207 252
Cochliomyia hominivorax screwworm 38
 39 53 63 85 105 136 162 172 184 199
 222 249 286 307 325 351 371 394 423
 474 499 519 547 573 625 627 651 731
 749 768 801 825 837 856 874
Coconut mealybug Nipaecoccus nipae
Coconut scale Aspidiotus destructor
Codling moth Laspeyresia pomonella
Colaspis pini pine colaspis 419
Colomegilla maculata a lady beetle
 260 261-262 349 543
Colias eurytheme alfalfa caterpillar
 103 144 298 486 666 697 757 762 779
 834
Colomerus vitis grape erineum mite 367
Colopterus spp. sap beetles 400
Colorado potato beetle Leptinotarsa
decehlineata
Common cattle grub Hypoderma lineatum
Common green lacewing Chrysopa carnea
Comperia merceti an encyrtid wasp 27
Compasilura concinnata a tachinid fly
 547 600
Comstock mealybug Pseudococcus com-
stocki
Conchuela Chlorochroa ligata
Conoderus sp. a wireworm 120 147 148
Conoderus falli southern potato wire-
 worm 119
Conotelus stenoides a sap beetle 400
Conotrachelus sp. a weevil 859
Conotrachelus aratus 301
Conotrachelus nenuphar plum curculio
 202 203 219 246 275 300 320 366
Contarinia sp. a cecidomyiid midge 577
Contarinia johnsoni grape blossom
 midge 441
Contarinia maculipennis 671
Contarinia sorghicola sorghum midge
 384 434 508 529 586 639 695 719 741
 794

1/ Also carried as Chrysops vittatus floridanus in Vol. 2.

2/ Carried as Stegopterna mutata in Vol. 2.

Convergent lady beetle Hippodamia convergens
 Cooley spruce gall aphid Adelges cooleyi
Copitarsai sp. a noctuid moth 753 804
Coptotermes formosanus Formosan subterranean termite 225 391
Cocuillettidia perturbans a mosquito 253 254 472 539
 Corn earworm Heliothis zea
 Corn flea beetle Chaetocnema pulicaria
 Corn leaf aphid Rhopalosiphum maidis
 Corn planthopper Peregrinus maidis
 Corn root aphid Aphis maidiradicis
 Corn sap beetle Carpophilus dimidiatus
Corythucha ulmi elm lace bug 304
Cossonus sp. a weevil 252
Cossus cossus a cossid moth 137
Cotinis nitida green June beetle 848
 Cotton aphid Aphis gossypii
 Cotton fleahopper Pseudatomoscelis seriatus
 Cotton leaf perforator Bucculatrix thurberiella
 Cottony maple scale Pulvinaria innumerabilis
 Cowpea aphid Aphis craccivora
 Cowpea curculio Chalcodermus aeneus
Crambus spp. sod webworms 338
Crambus trisectus See Pediasia trisecta
 Cranberry fruitworm Acrobasis vaccinii
 Cranberry weevil Anthonomus musculus
Cratypedes neglectus neglectus a grasshopper 600
 Cribate weevil Otiorynchus cribricollis
Crioceris asparagi asparagus beetle 188 218 245 274 300 490
Crioceris duodecimpunctata spotted asparagus beetle 274
Croesia albicomana oak leaftier 419 538
Crossotarsus sp. a platypodid beetle 328
Crymodes devastator glassy cutworm 361 364
Cryptoblabes gnidiella a pyralid moth 859 879
Cryptococcus fagisuga beech scale 854 857
Cryptolaemus montrouzieri a lady beetle 70
Cryptophlebia leucotreta false codling moth 839
Cryptophlebia ombrodelta an olethreutid moth 522 679
Cryptorhynchus fuscatus 549
Cryptorhynchus mangiferae mango weevil 56 448
Cryptorhynchus olivieri 522
Cryptotermes brevis a termite 679
Ctenocephalides canis dog flea 258
Ctenocephalides felis cat flea 258
Culex spp. 369 391 730
Culex erythrorhox 250 253
Culex peus 250 253
Culex pipiens northern house mosquito 784
Culex pipiens pipiens 254
Culex restuans 472
Culex tarsalis 472 539 570 648 674
Culiseta impatiens a mosquito 369
Culiseta incidens 250 253
Culiseta inornata 221
Culiseta melanura 254
Culiseta silvestris minnesotae 1/ 706 708
Curculio caryae pecan weevil 206 595 647 673 728 836 871
Curculio nucum a weevil 56
 Currant borer Synanthedon tipuliformis
 Cyclamen mite Steneotarsonemus pallidus
Cyclocephala immaculata southern masked chafer 696 761
Cylas formicarius elegantulus sweet-potato weevil 188
Cylindrocopturus adpersus 165
Cystiphora schmidtii a cecidomyiid midge 286 423

 SLUGS & SNAILS
Cochlicella barbara a helixid snail 162
Cochlicella ventrosa 163

 WEEDS
 Canada thistle Cirsium arvense
Carduus nutans musk thistle 653
Centaurea diffusa diffuse knapweed 653 707 709
Centaurea iberica Iberian starthistle 412 525

 1/ Carried as Culiseta minnesotae in error in Vol. 2.

Centaurea maculosa spotted knapweed
732 785 874 878
Centromadia pungens spikeweed 69 71
Chondrilla juncea rush skeletonweed
278 286 423 707 709 769
Cirsium arvense Canada thistle 801 802
Common crupina Crupina vulgaris
Common ragweed Ambrosia artemisiifolia
Crupina vulgaris common crupina 20 782
786
Cucumis melo var. dudaim dudaim melon
53

D

DISEASES

Diaporthe sp. a fungus 810
Diaporthe phaseolorum var. caulivora
soybean stem canker 532 698 743 822
834 850
Diaporthe phaseolprum var. sojae
soybean pod and stem blight 641 667
698 721 722 743 762-763 797 810 815
822 850 858 870
Dibotryon morbosum black knot 171
Diffusa powdery mildew Microsphaera
diffusa
Diplodia spp. 759 777 793 807
Diplodia maydis diplodia stalk rot 1/
732 740 760 777 792 821 846 858
Diplodia pinea pine tip blight 322
Diplodia stalk rot Diplodia maydis
Dutch elm disease Ceratocystis ulmi

INSECTS

Dactynotus richardsi an aphid 20
Dacus sp. 252
Dacus cucurbitae melon fly 395 417 445
817
Dacus dorsalis oriental fruit fly 9 15
38 63 69 85 86 105 135 162 172 184
199 222 249 279 285 325 499 502 601
707 749 788
Darksided cutworm Euxoa messoria
Datana integerrima walnut caterpillar
492
Decetes texanus texanus a cerambycid
beetle 851

1/ Carried as maydis cornstalk rot in
Vol. 2.

Deilephila nerii oleander hawk moth
856
Delphacodes nigrifacies a delphacid
planthopper 17
Delta curvata a vespid wasp 12 14
Dendroctonus brevicomis western pine
beetle 229 232
Dendroctonus frontalis southern pine
beetle 6 62 69 84 135 228 231 232
323 729 813
Dendroctonus ponderosae mountain pine
beetle 229
Dendroctonus pseudotsugae Douglas-fir
beetle 229
Dendroctonus rufipennis spruce beetle
229
Dendroctonus simplex eastern larch
beetle 230
Dermacentor albipictus winter tick 62
69
Dermacentor occidentalis Pacific Coast
tick 259
Dermacentor variabilis American dog
tick 221 248 259 277 305 420
Dermestes lardarius larder beetle 260
Desert corn flea beetle Chaetocnema
ectypa
Desmia funeralis grape leafroller 301
728
Devastating grasshopper Melanoplus
devastator
Diabrotica spp. corn rootworms 4 108
114 116 293 382 411 433 464 483 507
529 559-560 615 664 695 719 732 741
778 847
Diabrotica longicornis northern corn
rootworm 108 114 116 117 119 166 250
382 464 483 484 508 529 559 560 585-
586 615 626 640 664 665 695 709 719
732 741 778 847 857
Diabrotica undecimpunctata howardi
southern corn rootworm 116 117 118
148 149 214 242 293 382 411
Diabrotica undecimpunctata undecim-
punctata western spotted cucumber
beetle 177 416
Diabrotica virgifera western corn
rootworm 108 114-119 382 411 433 439
464 483 484 507 508 529 549 559 560
568 574 585 601 615 626 653 664 665
676 695 719 732 741 750 761 778 786
832 837 847 858
Diachlorus ferrugatus a tabanid fly
889

Diacrisia virginica yellow woolly-bear 723

Dialeurodes citri citrus whitefly 38

Dialeurodes kirkaldyi 652 708

Diamondback moth Plutella xylostella

Diaparsis n.sp. 284

Diaparsis spp. ichneumonid wasps 263
330 369 392 542 549 574 597 601 623
626 648 653

Diapheromera femorata walkingstick 836

Diapheromera velii 412 425

Diaphnocoris chlorionis a plant bug 302

Diaprepes abbreviatus West Indian sugarcane root borer 286 769

Diaspidiotus liquidambaris an armored scale 7 13

Diaspidiotus uvae grape scale 302

Diatraea grandiosella southwestern corn borer 20 108 111-112 133 159 432
463 507 528 558 614 637 663 694 718
778 794 821 847

Diatraea saccharalis sugarcane borer 112 120 265

Dichocrocis punctiferalis yellow peach moth 56 310 879

Dichomeris ianthes alfalfa leaf-tier 321 325

Dichomeris marginella juniper webworm 52 84

Dichromothrips corbetti vanda thrips 17 731

Differential grasshopper Melanoplus differentialis

Dimidiatus sp. a sap beetle 398 399 400 402 404

Dingy cutworm Feltia ducens

Dioryctria zimmermani Zimmerman pine moth 20 220 647 653

Diprion similis introduced pine sawfly 233

Dog flea Ctenocephalides canis

Dolichotetranychus carnea a false spider mite 20

Douglas-fir beetle Dendroctonus pseudotsugae

Douglas-fir tussock moth Orgyia pseudotsugata

Drepanopterna femoratum a grasshopper 768

Driedfruit beetle Carpophilus hemipterus

Dryocampa rubicunda greenstriped mapleworm 231 234

Dryocoetes villosus a scolytid beetle 426 817

Dryocosmus kuriphilus chestnut gall wasp 276

Dusky sap beetle Carpophilus lugubris

Dysaphis plantaginea rosy apple aphid 196 320

Dyscinetus sp. a scarab 552

Dysides obscurus a bostrichid beetle 426

Dysmicoccus alazon a mealybug 441

Dysmicoccus obesus 6 13

SLUGS & SNAILS

Deroceras caruanae a slug 880

WEEDS

Dalmatian toadflax Linaria dalmatica

Diffuse knapweed Centaurea diffusa

Dudaim melon Cucumis melo var. dudaim

Dyers woad Isatis tinctoria

E

DISEASES

Ear rots 718 821 832 846

Echidnodes sp. a fungus 374

Elm phloem necrosis virus 232

Elsinoe australis sweet orange scab 86 328 879

Elytroderma deformans elytroderma needle blight 230

Elytroderma needle blight Elytroderma deformans

Entomophthora phytonomi an insect fungus 143 443

Ergot Claviceps purpurea

Erwinia amylovora fire blight 195 246 274 320 346 366 388 418

Erwinia stewartii Stewart's wilt 119 361 557 583 613 636 662 693 718 740 759 777 808

Erysiphe graminis f.sp. hordei barley powdery mildew 242 294

Erysiphe graminis f.sp. tritici wheat powdery mildew 133 192 214 242 293-294 316 339 485

Eyespot Pyrenophora trichostoma

Erwinia rubrifaciens bacterial phloem canker 51

INSECTS

Earias biplaga a noctuid moth 859
Earias insulana spiny bollworm 374
 Ear tick Otobius megnini
 Eastern larch beetle Dendroctonus simplex
 Eastern spruce gall aphid Adelges abietis
 Eastern subterranean termite Reticulitermes flavipes
 Eastern tent caterpillar Malacosoma americanum
 Eggplant fruit borer Leucinodes orbonalis
 Egyptian alfalfa weevil Hypera brunneipennis
 Egyptian cottonworm Spodoptera litura
Ehrhornia cupressi a mealybug 389 395
 Eightspotted forester Alypia octomaculata
Elasmopalpus lignosellus lesser cornstalk borer 112 148-149 338 362 386 436 463 466 487 510-511 532 533 564 587 589 590 619 663 700 765 778 782 795 799
Elatobium abietinum spruce aphid 84 172
 Elm calligrapha Calligrapha scalaris
 Elm lace bug Corythucha ulmi
 Elm leaf beetle Pyrralta luteola
 Elm sawfly Cimbex americana
 Elm spanworm Ennomos subsignarius
 Elongate hemlock Fiorinia externa
Ematurga amitaria a geometrid moth 208
Empoasca fabae potato leafhopper 87 97 213 292 314 336 360 380 408 430 462 482-483 506 527 556 582 612 634 660 691 716 738 791
Empoasca solana southern garden leafhopper 573
Encarsia sp. a eulophid wasp 652 653
Encyrtolophus sordidus a grasshopper 444
Endria inimica painted leafhopper 340 384
 English grain aphid Macrosiphum avenae
Ennomos subsignarius elm spanworm 236
Eotetranychus sexmaculatus sixspotted mite 322
Ephialtes ontario an ichneumonid wasp 622
Epidiaspis leperii Italian pear scale 37

Epilachna paenulata a coccinellid beetle 788
Epilachna varivestis Mexican bean beetle 147-148 176 177 264 285 319 323 343 364 365 414 416 435-436 438 439 473 514 533 564 724 727 745 764 779
Epitrix hirtipennis tobacco flea beetle 175 536
Epitrix tuberis tuber flea beetle 175 438 468
Erannis tiliaria linden looper 235
Ergates faber a cerambycid beetle 477
Eriborus terebrans an ichneumonid wasp 3
Eriococcus araucariae an eriococcid scale 516 520
Eriococcus azaleae azalea bark scale 68 72 227 308
Eriococcus coccineus 873 877
Eriococcus insignis 20
Eriococcus quercus 516 520
Eriophyes baccharipha an eriophyid mite 784 786
Eriophyes chondrillae 278 423
Eriophyes granati 548 549 707 709
Eriosoma lanigerum woolly apple aphid 204
Eriotremex formosanus a siricid wasp 873 878
Eritettix sp. a grasshopper 351
Erythroneura elegantula a leafhopper 389 704 728 732
Estigmene acrea saltmarsh caterpillar 276 723. Light traps: 178 200 224 251 281 309 326-327 353 373 396 424 446 447 475 501 521 550 551 575 576 602 628 629 654 655 677 710 733 751 752 770 787 803 816 838
Euacidalia brownsvillae a geometrid moth 875 877 878
Eubazus rotundiceps a braconid wasp 730 731
Eucalymnatus tessellatus tessellated scale 322 442
Eucelatoria sp. a tachinid fly 548 594
Eucelatoria armigera 548
Euceratocerus gibbifrons an anobiid beetle 20
Euderes lineicollis a weevil 859
Eutheola rugiceps sugarcane beetle 295 338 362 411
Euleia heraclei celery fly 880
Euonymus scale Unaspis euonymi

Eupteromalus tachinae a pteromalid
wasp 250 264
Eurasian pine adelgid Pineus pini
European cherry fruit fly Rhagoletis cerasi
European corn borer Ostrinia nubilalis
European crane fly Tipula paludosa
European earwig Forficula auricularia
European elm scale Gossyparia spuria
European fruit lecanium Lecanium corni
European fruit scale Quadraspidiotus ostreaeformis
European pine sawfly Neodiprion sertifer
European pine shoot moth Rhyacionia buoliana
European red mite Panonychus ulmi
Eusepeus postfasciatus West Indian
sweetpotato weevil 426 445
Euschistus servus brown stink bug 159 835
Eutetranychus banksi Texas citrus mite 207 220
Euxoa auxiliaris army cutworm 3 51 59 67 83 87 88 89 103 133 159 169 181 191 213 241 269 291 313 379 407 425 429 845 867. Light traps: 251 281 309 326 373 446 475 501 550 677 803 838 849
Euxoa detera sandhill cutworm 414 881 883 886
Euxoa messoria darksided cutworm 361
Euxoa ochrogaster redbacked cutworm 165 208
Exartema valdanum an olethreutid moth 441

F

DISEASES

Fig cyst nematode Heterodera fici
Fire blight Erwinia amylovora
Frogeye leaf spot Cercospora sojae
Fusarium spp. stalk rots and ear
rots 693 718 759 760 777 792 793 807 808 811 815 821 831 832 845 846 847 870
Fusarium conglutinans var. betae
fusarium yellows 415
Fusarium yellows Fusarium conglutinans var. betae
Fusiform rust Cronartium fusiforme

INSECTS

Face fly Musca autumnalis
Fall armyworm Spodoptera frugiperda
Fall cankerworm Alsophila pometaria
Fall webworm Hyphantria cunea
False celery leafminer Udea profundalis
False chinch bug Nysius ericae
False codling moth Cryptophlebia leucotreta
Faronta diffusa wheat head armyworm 294. Light traps: 224 251 281 309 326 353 373 446 475 501 550 575 602 678 710 751
Feltia ducens dingy cutworm 88 352 361 381 882 883 885
Feltia subterranea granulate cutworm 149 300 365 564 590 619. Light traps: 106 152 162 178 185 200 224 251 281 309 326 353 373 396 424 446 475 501 521 550 575 602 628 654 677 710 733 751 770 787 803 816 826 838 849 876
Fenusa pusilla birch leafminer 237 277 302 390 471 705 708
Fern scale Pinnaspis aspidistrae
Ferrisia virgata striped mealybug 70 420 425
Filbert bud mite Phytocoptella avellanae
Filbertworm Melissopus latiferreanus
Fiorinia externa elongate hemlock scale
Fiorinia theae tea scale 6 13 226 516 520 872 878
Floodwater mosquito Aedes sticticus
Florida wax scale Ceroplastes floridensis
Forage looper Caenurgina erechtea
Forest tent caterpillar Malacosoma disstria
Forficula auricularia European earwig 21
Formica altipetens 71
Formica densiventris 71
Formica exsectoides Allegheny mound ant 303
Formica obscuriventris obscuriventris 71
Formica opaciventris 71
Formica perpilosa 200
Formica subsericea 71
Formosan subterranean termite Coptotermes formosanus
Fornax samoensis a eucnemid beetle 105 106

Frankliniella spp. 149 152
Frankliniella fusca tobacco thrips
 148 149 274 533
Frankliniella lilivora 679
Frankliniella occidentalis western
 flower thrips 197 200 307 371 425
 499 745 875
Fruitree leafroller Archips argyros-
pilus
Fumibotys fumalis a pyralid moth 165
Furcaspis biformis an armored scale
 474
Furchadaspis zamiae an armored scale
 199 200
Furcipes rectirostris a weevil 310

G

DISEASES

Gaeumannomyces graminis var. tritici
 take-all 1/ 121 339 433 465 485
Gibberella sp. a rot 693 759 760 777
 793 807 808 821 832
Gibberella fujikuroi See Gibberella
 (Fusarium) moniliforme
Gibberella (Fusarium) moniliforme
 moniliforme rots 2/ 693 717 759 777
 792 815 821 846 858
Gibberella (Fusarium) roseum f.sp.
cerealis gibberella stalk rot 3/ 718
 739 759 777 792 808 821 845 846 858
Gibberella (Fusarium) roseum f.sp.
cerealis red ear rot 3/ 777 821 846
 847 858
Gibberella stalk rot Gibberella
 (Fusarium) roseum f.sp. cerealis
Globodera pallida potato cyst nematode
 397
Globodera rostochiensis golden nema-
 tode 321 374 656 817
Glomerella spp. anthracnoses 870
Glomerella glycines soybean (glycines)
 anthracnose 763 781 811 823 850 858
Gnomonia platani sycamore anthracnose
 231
 Golden nematode Globodera rostochi-
ensis

1/ Carried as Gaumannomyces graminis
 in Vol. 2.

2/ Carried as Gibberella fujikuroi
fujikuroi rot in Vol. 2.

3/ Carried as roseum rot in Vol. 2.

Gonatobotrys zeae gonatobotrys kernel
 rot 821 846 858
Gonatobotrys kernel rot Gonatobotrys
zeae
 Goss wilt Corynebacterium nebraskense
Graminicola anthracnose Colletotrichum
graminicola 4/
 Grass downy mildew Sclerophthora mac-
rospora
Gremmeniella abietina scleroderris
 canker 5/ 229
Guignardia citricarpa citrus black
 spot 679 839
Gymnosporangium clavipes quince rust
 197
Gymnosporangium juniperi-virginianae
 cedar-apple rust 197 218 246 346 440

INSECTS

Gymnetron sp. a weevil 804
Galleria mellonella greater wax moth
 264
 Garden symphylan Scutigerella immacu-
lata
 Garden webworm Loxostege rantis
Gasterophilus haemorrhoidalis nose bot
 fly 258
Gasterophilus intestinalis horse bot
 fly 258
Gelechia ericetella a gelechiid moth
 734
Geococcus coffeae a mealybug 249
Geocoris spp. bigeyed bugs 265
Geocoris punctipes 306 349
Geotomus pygmaeus a cydnid bug 448
 German cockroach Blattella germanica
 Giant bark aphid Longistigma caryae
 Giant hornet Vespa crabro germana
Gitonides perspicax a mealybug preda-
 tor fly 70
Gladiolus thrips Taeniothrips simplex
 Glassy cutworm Crymodes devastator
 Gloomy scale Melanaspis tenebricosa
 Goat sucking Touse Linognathus stenop-
sis
Gossyparia spuria European elm scale
 647

4/ Carried as Colletotrichum gramin-
colum in Vol. 2

5/ Carried as Scleroderris lager-
bergii in Vol. 2.

Gotra sp. an ichneumonid wasp 17
Gracillaria negundella boxelder leaf-
 roller 236
 Granulate cutworm Feltia subterranea
 Grape berry moth Paralobesia viteana
 Grape blossom midge Contarinia johnsoni
 Grape cane gallmaker Ampelogypter
sesostris
 Grape erineum mite Colomerus vitis
 Grape leafroller Desmia funeralis
 Grape root borer Vitacea polistiformis
 Grape scale Diaspidiotus uvae
Graphognathus spp. whitefringed
 beetles 242 365 436 511 547 625 676
 874 878
Grapholitha funebrana plum fruit moth
 827
Grapholitha molesta oriental fruit
 moth 202 219 300 440 470 491 595 672
Grapholitha packardii cherry fruitworm
 208
 Grass bugs 370 473
 Grasshoppers 199 279 284 306 324 350
 370 394 421-422 444-445 473 487 498
 518 532 533 545-546 571 588 589 600
 615 616 624 639 640 675 697 706 730
 749 768 801 813-814 836
 Grass thrips Anaphothrips obscurus
 Grass webworm Herpetogramma licarsis-
alis
 Greater wax moth Galleria mellonella
 Greedy scale Hemiberlesia rapax
 Greenbug Schizaphis graminum
 Green cloverworm Plathypena scabra
 Greenhouse whitefly Trialeurodes
vaporariorum
 Green June beetle Cotinis nitida
 Green peach aphid Myzus persicae
 Green scale Coccus viridis
 Green stink bug Acrosternum hilare
 Greenstriped mapletworm Dryocampa
rubicunda
 Groundnut bruchid Caryedon serratus
Gryllotalpa africana African mole
 cricket 522
 Gulf Coast tick Amblyomma maculatum
Gymnaspis aechmeae an armored scale
 872 877
 Gypsy moth Lymantria dispar

SLUGS & SNAILS

Giant African snail Achatina fulica
 Gray garden slug Agriolimax reticu-
latus

H

DISEASES

Helminthosporium carbonum helmintho-
 sporium leaf spot 583 636 661 692
 717 739 759 776 791 807
Helminthosporium leaf spot Helmintho-
sporium carbonum
Helminthosporium maydis southern leaf
 blight 661 692 717 739 759 776
Helminthosporium tritici-vulgaris
 wheat leaf spot 848
Helminthosporium turcicum northern
 leaf blight 557 692 717 759 791 807
 815
Helminthosporium vagans melting out
 124
Heterodera avenae oat cyst nematode
 374 522
Heterodera fici fig cyst nematode 630
Heterodera glycines soybean cyst nema-
 tode 21 136 147 563 574 618 626 798 8
 851 857
Heterodera schachtii sugar beet nema-
 tode 812

INSECTS

Haemaphysalis sp. a hardbacked tick
 137
Haematobia irritans horn fly 62 84 162
 172 184 198 220 248 253 256-257 277
 304 323 348 368 390 420 442 471 493
 517 539 570 596 623 648 674 705 730
 748 768 785 813 836 854
Haematopinus eurysternus shortnosed
 cattle louse 52 258
Haematopinus quadripertusus
 cattle tail louse 253 258 813
Haematopinus suis hog louse 69 248
 Hairy chinch bug Blissus leucopterus
hirtus
Halisdota argentata silverspotted
 tiger moth 161 171 233 247 280 302
 372

Halisidota caryae hickory tussock moth 470 539
Hamamelistes spinosus an aphid 238
Hamatabanus carolinensis a tabanid fly 887 889
Haptoncus luteolus a sap beetle 400
Harmolita sp. a jointworm 173
Harrisina brillians western grape-leaf skeletonizer 207 208 418 441 569 595 872
Head louse Pediculus humanus capitis
Heilipus apiatus = squamosa a weevil 5
Heliothis spp. budworms 99 149 151 213 387 414-415 437 467 468 488 512 513 534 535 536 565 566 567 591 620 644-645 646 670 672 701-702 703 725 726 737 766 766 802 823 859
Heliothis virescens tobacco budworm 83 99 149 151-152 241 270 337 360 380 408 431 437 461 462 467 488 506 512 534 535 556 565 566 591-592 620 634 644-645 701-702 725 726 732 737 746 747 766 767 783 823. Light traps: 224 251 281 309 326 353 373 396 424 446 475 501 521 550 575 576 602 628 654 655 677 710 733 751 752 770 787 803 816 826 838 849
Heliothis zea bollworm, corn earworm, tomato fruitworm 87 92 147 148 149 151-152 191 213 241 249 292 314 318 336 344 360 379 387 407 414 415 429-430 437 461-462 467 481 488 505 507 512 525 526 529 534 535 555 563 564 565 566 581 590 591-593 611 614 618 619 620 633 634 644-645 659 669 689 694 696 697 700 701-702 715 718 720 723 725 726 732 737 738 746 747 757 766 767 775 778 783 791 800 807 808 821 823 831 845 867. Light traps: 200 224 251 309 326 353 373 396 424 446 447 475 501 521 550 551 575 576 602 628 654 655 677 678 710 711 733 751 752 770 787 803 816 826 838 849 876 Hellula rogatalis cabbage webworm 307 728 745 800 802 852 Hemiberlesia lataniae latania scale 68 72
Hemiberlesia rapax greedy scale 59 853 857
Hemileuca oliviae range caterpillar 124 279 286 295 394 411 423 499 519 547 572 616 707 749 785 824 855
Hemispherical scale Saissetia coffeae
Herpetogramma licarsialis grass webworm 12 499 548
Hesperotettix sp. a grasshopper 351
Hessian fly Mayetiola destructor
Heterocampa biundata 234
Heterocampa guttivitta saddled prominent 231 234 420
Heterospilus baeticatus a braconid wasp 11 13
Heterotermes tenuis a termite 15
Hexarthrum ulkei a weevil 85
Hickory shuckworm Laspeyresia caryana
Hickory tussock moth Halisidota caryae
Hierodula patellifera a mantid 745 750
Hippobosca longipennis a louse fly 253 257
Hippodamia spp. lady beetles 278 336 342 349 473
Hippodamia convergens convergent lady beetle 85 162 198 260 261 262 278 306 369 408 421 543 813
Hog louse Haematopinus suis
Hollyhock weevil Apion longirostre
Homadula anisocentra mimosa webworm 52 54 223 235 348 596 601 673 676 824 825
Homoeosoma electellum sunflower moth 165 513 536 567 621 627 646 703 727
Honey bee Apis mellifera
Hoplia sp. a scarab 426
Hormaphis hamamelidis an aphid 238
Horn fly Haematobia irritans
Horse bot fly Gasterophilus intestinalis
House fly Musca domestica
Howardia biclavis mining scale 492
Hybomitra lasiophthalma a tabanid fly 472
Hybomitra nuda 472
Hybomitra sonomensis 570
Hydrothassa vittata a chrysomelid beetle 21
Hylastes ater a scolytid beetle 73
Hylastes attenuatus 788
Hylastes opacus 804
Hylemya antiqua onion maggot 320 417
Hylemya brassicae cabbage maggot 320
Hylemya platura seedcorn maggot 147 148 176 242 300 387

Hylobius sp. 448 788
Hylobius abietis 40
Hylobius pales pales weevil 220 223
Hylotrupes bajulus old house borer 100
 259 305 854 857 874 878
Hylurgopinus rufipes native elm bark
 beetle 705 709 813 815
Hylurgops palliatus a scolytid beetle
 56 448 502 577
Hylurgus ligniperda a scolytid beetle
 397
Hypera strigata lantana defoliator
 caterpillar 12
Hypera brunneipennis Egyptian alfalfa
 weevil 103 182 439
Hypera meles clover head weevil 216
Hypera nigrirostris lesser clover leaf
 weevil 244 720 732
Hypera postica alfalfa weevil 4 7-8 24
 25-26 59 67 83 103 134 136 138-143
 160 162 170 182 184 193-194 198 215-
 216 243-244 262 263 264 271-272 278
 296-297 305 317-318 321 323 340 363
 385 412-413 434-435 439 443 465 473
 486 509 531 623 697 720 840-842 849
 854 855 870
Hypera punctata clover leaf weevil 182
 216
Hypericicoccus hyperici an eriococcid
 scale 21
Hyperodes maculicollis a weevil 125
Hyphantria cunea fall webworm 206 231
 233-234 388 440 441 442 492 569 570
 596 622 647 673 705
Hypoderma bovis northern cattle grub
 21
Hypoderma lineatum common cattle grub
 7 52 62 69 84 198 257 874
Hypoconera punctatissima an ant 652

SLUGS & SNAILS

Helicella sp. a helicid snail 817
Helicella conspurcata 355 837
Helicella cretica 173 502
Helicella joppensis 448
Helicella krynickii 788 817
Helicella maritima 163
Helicella neglecta 771
Helicella striata 374 827
Helix aperta 107
Helix aspersa brown garden snail 12 21
 70 136 351 367 372 856 876
Helix pomatia 577

WEEDS

Helianthus ciliaris Texas blueweed 70
 71
Hemp broomrape Orobanche ramosa
Heteropogon contortus tanglehead 10
Horsenettle Solanum carolinense
Hydrilla Hydrilla verticillata
Hydrilla verticillata hydrilla 21 391
 395 513 520 574 627 750 814

INSECTS

Ichthyura inclusa poplar tentmaker 729
Imported cabbageworm Pieris rapae
Imported longhorned weevil Calomyces
terus setarius
Incisitermes minor western drywood
 termite 854 858
Incisitermes snyderi 259
Indian meal moth Plodia interpunctella
Introduced pine sawfly Diprion similis
Ips cembrae a scolytid beetle 15 310
 630
Ips typographus 15 40 712
Irbisia brachycera a grass bug 124 125
 473
Irbisia pacifica 124 125 370 473
Irbisia shullii 124 125
Iridomyrmex pruinosus analis an ant 71
Italian pear scale Epidiaspis leperii
Itopectis conquisitor an ichneumonid
 wasp 622
Ixodes scapularis blacklegged tick 874

WEEDS

Iberian starthistle Centaurea iberica
Isatis tinctoria dyers woad 499

DISEASES

Juniperovora twig blight Phomopsis
juniperovora

INSECTS

Jack pine budworm Choristoneura pinus
Janus abbreviatus willow shoot sawfly
 596 601

Japananus hyalinus a leafhopper 705
709
Japanese beetle Popillia japonica
Juniper webworm Dichomeris marginella

K

DISEASES

Kabatiella eyespot Kabatiella zeae
Kabatiella zeae kabatiella eyespot 739

INSECTS

Kampimodromus aberrans a phytoseiid
mite 59
Keiferia lycopersicella tomato pinworm
174 249 621 626 875
Kermes branigani a gall-like scale 813
815
Khapra beetle Trogoderma granarium

L

DISEASES

Leptosphaerulina leaf spot Lepto-
sphaerulina briosiana
Leptosphaerulina briosiana lepto-
sphaerulina leaf spot 193 243 271 295
317 434 742 795
Lima bean downy mildew Phytophthora
phaseoli
Little cherry virus 800 802
Loose smut Ustilago nuda
Lophodermella concolor concolor needle
blight 230

INSECTS

Labopidea allii onion plant bug 417
425
Labops spp. grass bugs 124 125 599
Labops hesperius 124 125 215 271 306
350 394 421
Labops hirtus 599 601
Labops utahensis 124 125
Lambdina fiscellaria somnaria western
oak looper 673
Lampides boeticus bean butterfly 64
880
Lantana defoliator caterpillar Hypena
strigata

Lantana hispid Uroplata girardi
Larch sawfly Pristiphora erichsonii
Larder beetle Dermestes lardarius
Large aspen tortrix Choristoneura con-
flictana
Large white butterfly Pieris brassicae
Lasius crypticus an ant 71
Lasius fallax 71
Laspeyresia caryana hickory shuckworm
206 247 470 836 852
Laspeyresia pomonella codling moth 196
202 274 320 346 418 440 470 491 569
595 647 672 704 748 767. Light traps:
281 710
Laspeyresia fagiglandina
an olethreutid moth 56
Laspeyresia splendana 15
Latania scale Hemiberlesia lataniae
Lawn armyworm Spodoptera mauritia
Leaffooted bug Leptoglossus phyllopus
Lecanium corni European fruit lecanium
5 705 709
Lecanium coryli 246 250
Lecanium nigrofasciatum terrapin scale
68 72 204 246 492 516 520
Lecanium quercifex oak lecanium 197
237
Lecanodiaspis prosopidis a lecanodias-
pid scale 63 68 72
Leek moth Acrolepia assectella
Lema bilineata a chrysomelid beetle
225
Lema gallaeciana 859
Lemophagus curtus an ichneumonid wasp
284 331 349 393 543 649 653
Leperisinus aculeatus a scolytid
beetle 7 14
Leperisinus californicus 7 13 14 21
Lepidosaphes pini an armored scale 73
Lepidosaphes tokionis 163
Lepidosaphes ulmi oystershell scale
275 304 366
Lepidosaphes yanagicola 223 227
Leptinotarsa decemlineata Colorado
potato beetle 174 175 195 218 245 319
344 387 416 468 489 536 568 594 747
Leptobyrsa decora a tingid bug 12
Leptoglossus corculus a leaffooted bug
21
Leptoglossus phyllopus 159
Leptoglossus zonatus 178
Leptopterna dolabrata meadow plant bug
126 340
Leptopypha minor a tingid bug 390

Leptynoptera sulfurea a psyllid 825
Lesser clover leaf weevil Hypera nigrirostris
Lesser cornstalk borer Elasmopalpus lignosellus
Lesser mealworm Alphitobius diaperinus
Lesser peachtree borer Synanthedon pictipes
Leucania sp. probably insecuta (a noctuid moth) See L. striata
Leucania striata 1/ 878
Leucinodes orbonalis eggplant fruit borer 40 552
Leucoma salicis satin moth 236 517
Leucopis sp. a chamaemyiid fly 856
Leucopis nigriluna 876
Leucopis obscura 280 796
Leucoptera taburnella a lyonetiid moth 853 857
Leucotabanus annulatus a tabanid fly 887 889
Ligyrocoris litigiosus a lygaeid bug 21
Ligyus sp. a scarab 355
Lilac borer Podosesia syringae
Linden looper Erannis tiliaria
Linognathus stenopsis goat sucking louse 184
Linognathus vituli longnosed cattle louse 52 84 258
Liogenys macropelma a scarab 186 328
Lipamyzodes mathiolae an aphid 104 106
Liriomyza spp. leafminer flies 11 70 136 280 307 325 371 395 445 515 548 573 621 652 671 707 745 765 786 875
Liriomyza munda vegetable leafminer 176 187 227 300 365
Liriomyza sativae 8 416 438
Lissorhoptrus chapini 815
Lissorhoptrus oryzophilus rice water weevil 122 294 696
Listroderes costirostris obliquus vegetable weevil 183
Lithocolletis crataegella a graci-lariid moth 491
Lithophane laticinerea a noctuid moth 517 520
Lixophaga diatraeae a tachinid fly 260 265
Lobesia botrana an olethreutid moth 804 827
Lobiopa insularis a sap beetle 400
Loblolly pine sawfly Neodiprion taedae linearis
Locusta migratoria a grasshopper 252
Locust borer Megacyllene robiniae
Locust leafminer Odontota dorsalis
Lone star tick Amblyomma americanum
Long brown scale Coccus elongatus
Longistigma caryae giant bark aphid 238
Longitarsus jacobaeae a chrysomelid beetle 260 261
Longitarsus waterhousei 536
Longnosed cattle louse Linognathus vituli
Longtailed mealybug Pseudococcus longispinus
Lophyroplectus luteator an ichneumonid wasp 368
Loxagrotis albicosta western bean cutworm 106 108 114 464 507 528 559 585 601 615 638 653 664 695 709 741
Loxosceles reclusa brown recluse spider 349
Loxostege commixtalis alfalfa webworm 666
Loxostege rantisalis garden webworm 466 531 533 562 564 588 589 617 640 667 742 779
Loxostege sticticalis beet webworm 435
Light traps: 446 475 521 654 677 710 770
Lubber grasshopper Brachystola magna
Lygus spp. lygus bugs 144 152 164 178 509 562
Lygus lineolaris tarnished plant bug 135 152 176 183 195 210 217 218 246 271 299 301 343 415 438 467 486 489 509 513 531 535 567 620 645 721
Lymantria dispar gypsy moth 9 21 38 105 106 198 199 228 229 248 262 264 265 279 284 306-307 324 351 394 425 444 474 498 518 546 600 625 651 676
Lysiphlebus testaceipes an aphidiid wasp 96-97 135 198 262 292 305 323 336 349 420 571 611 612 649 675 758
Lystridea wilkeyi a leafhopper 384 395

SLUGS & SNAILS

1/ Carried as Leucania probably insecuta in Vol. 2.
Limacolaria numidica a snail 771

WEEDS

Linaria dalmatica dalmatian toadflax
308 372 439 625 626
Lychnis alba white cockle 386

M

DISEASES

Macrophoma oleae a fungus 879
Macrophomina phaseolina charcoal rot
532 636 641 662 693 699 722 740 763
781 792 798 811 822 831 846 850 858
870
Maize chlorotic dwarf virus 636
Maize dwarf mosaic virus 431 527 555
583 613 636 662 694 718 740 750 847
857 868 877
Melting out Helminthosporium vagans
Microsphaera diffusa diffusa powdery
mildew 743 763 781 798 802 811 823
835 851
Monilinia fructigena a fungus 522
Mosaic dwarf agent 558 584
Mycosphaerella sp. a fungus 15 352 355
Mycosphaerella caryigena pecan downy
spot 68
Mycosphaerella tassiana a fungus 328

INSECTS

McDaniel spider mite Tetranychus mcdanieli
Macalla thyrsalis a pyralid moth 276
Macroglossum pyrrhostictum a sphingid
moth 18 671 676
Macrosiphoniella sanborni chrysanthemum aphid 196
Macrosiphum avenae English grain aphid
95 122 123 159 294 408 434 465 506
869
Macrosiphum euphorbiae potato aphid
302 345
Macrosiphum liriodendri tuliptree
aphid 238 623 626 800 802
Macrosteles fascifrons aster leaf-
hopper 87 91 159 191 213 241 269 291
313 335-336 360 407 429 461 505 845
Magdalis sp. a weevil 730
Maize billbug Sphenophorus maidis
Malacosoma spp. 203 491
Malacosoma americanum eastern tent
caterpillar 69 161 171 183 196 219
246 275 300 471
Malacosoma californicum western tent
caterpillar 124 231 234-235 465
Malacosoma californicum pluviale 203
Malacosoma disstria forest tent cater-
pillar 203 220 228 234 247 347 368
390
Maladera sp. a scarab 552
Mamestra brassicae cabbage moth 827
Mamestra configurata bertha armyworm
174
Manduca sp. a sphingid moth 468 513
567 620 646 672 703
Manduca quinquemaculata tomato horn-
worm 99 409 462 483 506 556 583 612
634 716. Light traps: 446 447 475 501
521 550 602 628 654 677 710 711 733
751 752 770 787 803 816
Manduca sexta tobacco hornworm 99 337
361 408-409 483 506 527 556 583 612
634 660 716. Light traps: 373 447 475
501 521 550 551 575 576 602 628 654
655 677 678 710 711 733 751 752 770
787 803
Mango weevil Cryptorhynchus mangiferae
Mansonia spp. mosquitoes 254
Mansonia perturbans 443
Maple leafcutter Paraclemensia aceri-
foliella
Martyrhilda canella an oecophorid moth
520
Maruca testulalis bean pod borer 15 86
860
Mayetiola destructor Hessian fly 4 122
270 294 508 530 616 833 848 868
Meadow plant bug Leptopterna dolabrata
Meadow spittlebug Philaenus spumarius
Mediterranean fruit fly Ceratitis cap-
itata
Megachile rotundata alfalfa leafcut-
ting bee 260 261 265
Megacyllene robiniae locust borer 237
Megalonotus chiragrus sabulicolus a
lygaeid bug 1/ 871 877
Megastigmus schimitscheki a torymid
wasp 40
Megastigmus strobilobius 502
Megastigmus suspectus 16
Melalgus sp. a bostrichid beetle 552
Melanagromyza schineri a leafminer fly
304

1/ Carried as Megalonotus sabulicola
in error in Vol. 2.

Melanaspis bromeliae an armored scale 872 877
Melanaspis tenebricosa gloomy scale 873 878
Melanophthalma distinguenda a lathridiid beetle 750
Melanoplus spp. grasshoppers 279 351
 421 422 473 545 546 560 571 586 600
 624 651 749 796
Melanoplus bivittatus two-striped grasshopper 324 351 370 394 422 444 445
 473 498 546 572 616 624 625 640 675
 697 768 801 814 836
Melanoplus dawsoni 572 624 625
Melanoplus devastator devastating grasshopper 706
Melanoplus differentialis differential grasshopper 351 370 422 473 498 546
 571 586 588 589 600 615 616 617 624
 625 640 675 697 768 801 813 814 836
Melanoplus femurrubrum redlegged grasshopper 394 422 445 473 498 546 572
 615 616 624 625 639 640 675 697 741
 814 836
Melanoplus marginatus 421
Melanoplus occidentalis 199 768
Melanoplus packardii Packard grasshopper 324 351 370 422 445 498 572
 624 768 801 836
Melanoplus sanguinipes migratory grasshopper 306 324 351 370 394 421 445
 473 498 518 546 572 600 624 651 675
 749 768 801 814 836
Melanotus communis a wireworm 119-120
 159
Melipotis indomita a noctuid moth 417
Melissopus latiferreanus filbertworm 704
Melittia cucurbitae squash vine borer 187
Meloe niger a meloid beetle 878
Melolontha melolontha a chafer 477
Melon aphid Aphis gossypii
Melon fly Dacus cucurbitae
Mermiria maculipennis maculipennis a grasshopper 422 768
Meromyza americana wheat stem maggot 122 339 434 833 848 869
Metamasius sp. a weevil 604 860 880
Meteorus laphygmae a braconid wasp 594
Meteorus pulchricornis 260 262
Mexican bean beetle Epilachna varivestitis
Mexican fruit fly Anastrepha ludens

Microctonus aethiopoidea a braconid wasp 8 13 25-26 260 262 323 623 626
 840-842
Microctonus colesi 25-26 840-842
Microlarinus lareynii puncturevine seed weevil 8-9 13 21 52 54 260 261
Microlarinus lypriformis puncturevine stem weevil 9 14 260 261 785 786 855
 858
Microtheca ochroloma yellowmargined leaf beetle 594 601
Migratory grasshopper Melanoplus sanguinipes
Mimosa webworm Homadula anisocentra
Mindarus abietinus balsam twig aphid 197 303 347 389
Mining scale Howardia biclavis
Molorchus sp. a cerambycid beetle 310
Monarthrum fasciatum a scolytid beetle 304
Monellia spp. 207 219
Monellia costalis blackmargined aphid 206 301 346
Monelliopsis nigropunctata an aphid 206 301 346
Monkeypod moth Polydesma umbricola
Monochamus sp. a cerambycid beetle 107
Monomorium pharaonis pharaoh ant 184
 185
Monosteira unicostata almond bug 860
Mordellistena sp. a mordellid beetle 374
Mormon cricket Anabrus simplex
Mosquitoes 221 248 277 305 348 369 391
 420 443 472 539 570 648 674 785
Mountain ash sawfly Pristiphora geniculata
Mountain pine beetle Dendroctonus ponderosae
Mourningcloak butterfly Nymphalis antiopa
Mulberry whitefly Tetraleurodes mori
Musca autumnalis face fly 84 198 221
 250 253 255-256 277 304 348 368 390-
 391 395 420 425 442 471 493 517-518
 520 539 596 623 648 674 706 730 732
 748-749 750 785
Musca domestica house fly 801
Myiopardalis pardalina Baluchistan melon fly 656
Myrmecocystus hammettensis an ant 71
Myzocallis boeneri an aphid 304
Myzus cerasi black cherry aphid 204
 388
Myzus ligustri privet aphid 75

Myzus persicae green peach aphid 37 62
83 84 161 164 171 174 175- 176 195
204 217 301 415 489 513 514 536 703

SLUGS & SNAILS

Monacha carthusiana a helixid snail
552
Monacha olivieri 426

WEEDS

Musk thistle Carduus nutans

N

DISEASES

Nigrospora sp. an ear rot 808
Nigrospora oryzae cob rob 821 832
845 846 847 858
Northern leaf blight Helminthosporium
turcicum

INSECTS

Nantucket pine tip moth Rhyacionia
frustrana
Nasutitermes sp. a termite 107
Native elm bark beetle Hylurgopinus
rufipes
Navel orangeworm Paramyelois transi-
tella
Nematodes atropos an eucnemid beetle
21
Nematus chalcus a sawfly 784
Neodiprion sertifer European pine saw-
fly 247 276 302 368
Neodiprion taedae linearis loblolly
pine sawfly 302
Neoleucinodes elegantalis a pyralid
moth 734
Neotermes sp. a termite 201
Nesothrips brevicollis a thrips 18
Neurocolpus nubilis clouded plant bug
620
Nezara viridula southern green stink
bug 782 835
Nicentrites testaceipes a weevil 1/ 880
Nicentrus testaceus a weevil See
Nicentrites testaceipes 1/

1/ Carried as Nicentrus testaceus
in Vol. 2.

Nipaecoccus nipae coconut mealybug 621
Nomia melanderi alkali bee 675
Northern cattle grub Hypoderma bovis
Northern corn rootworm Diabrotica
longicornis
Northern fowl mite Ornithonyssus
syliarum

Northern house mosquito Culex pipiens
Norway maple aphid Periphyllus
lyropictus
Nose bot fly Gasterophilus
haemorrhoidalis
Nymphalis antiopa mourningcloak
butterfly 622 626
Nysius sp. a lygaeid bug 719
Nysius ericae false chinch bug 561
Nysius huttoni 502
Nysius raphanus 871

O

DISEASES

Oat wilt Ceratocystis fagacearum
Oat crown rust Puccinia coronata var.
avenae
Oat cyst nematode Heterodera avenae
Oat loose smut Ustilago avenae
Oat stem rust Puccinia graminis f.sp.
avenae

INSECTS

Oak leaftier Croesia albicomana
Oak lecanium Lecanium quercifex
Oberea bimaculata raspberry cane borer
207 208
Obliquebanded leafroller Choristoneura
rosaceana
Octotoma plicatula a chrysomelid
beetle 22
Odonaspis penicillata an armored scale
729 732
Odontaleyrodes rhododendri a whitefly
22 280
Odontota dorsalis locust leafminer 237
517 539 648 853 857
Oebalus pugnax rice stink bug 271 696
Oedaleonotus enigma enigma a grass-
hopper 279
Oedaleus abruptus small bandedwing
grasshopper 656
Oestrus ovis sheep bot fly 258 874
Old house borer Hylotrupes bajulus
Oleander hawk moth Deilephila nerii
Oleander scale Aspidiotus nerii

- Oligonychus ilicis southern red mite
 210 570
Oligonychus pratensis Banks grass mite
 108 121 639 653 665 695-696
Oligonychus ununguis spruce spider
 mite 226 227 347 538
Oligotrophus betulae a gall midge 186
Omnivorous leaf-tier Cnephasia longana
Omphis anastomosalis sweetpotato vine
 borer 186 445 604
Oncocnemis punctilinea (a noctuid
 moth 236
 Onion maggot Hylemya antiqua
 Onion plant bug Labopidea allii
 Onion thrips Thrips tabaci
Ooencyrtus chrysopae an encyrtid wasp
 18 52 54
Opeia obscura a grasshopper 444
Operophtera brumata winter moth 16
Opomyia phaseoli bean fly 371
Opius dimidiatus a braconid wasp 8
 187
Opogona sp. a lyonetiid moth 252
 Orangestriped oakworm Anisota
senatoria
Orchamoplatus mammaeferus a whitefly
 12 18 70 474 594 652 771 880
Orchidophilus aterrimus orchid weevil
 712 814 837
Orchidophilus peregrinator 837
Orchid weevil Orchidophilus aterrimus
Orgyia pseudotsugata Douglas-fir
 tussock moth 229
Orgyia vetusta western tussock moth
 561
 Oriental fruit fly Dacus dorsalis
 Oriental fruit moth Grapholitha
molesta
Orius persequens an anthocorid bug
 371
Ornithonyssus sylviarum northern fowl
 mite 69 253 259
Orthemis ferruginea a libellulid
 dragonfly 856 857
Orthotomicus erosus a scolytid beetle
 16 163 282 753
Orthotylus nassatus a European plant
 bug 605-608
Oryzaephilus surinamensis sawtoothed
 grain beetle 730 854
Ostrinia nubilalis European corn borer
 3 41-48 108-111 159 169 174 181 192
 214 270 274 293 315 338 362 365 375
 376 381-382 409-410 431-432 463 483
 485 489 507 508 514 527-528 558 584
 613-614 621 636 637 646 660 662-663
 694 703 718 728 740 747 760 777-778
 784 792 793-794 800 807 808 809 832.
 Light traps: 326 353 354 373 396 424
 446 475 476 501 521 550 551 575 576
 602 603 628 629 654 655 677 678 710
 711 733 751 770 787 803 826
Otiiorhynchus cribricollis cribrate
 weevil 671
Otiiorhynchus ovatus strawberry root
 weevil 209
Otiiorhynchus sulcatus black vine
 weevil 22 208 209 226 389
Otobius megnini ear tick 172 250
 258-259 493 648
Oulema melanopus cereal leaf beetle
 22 53 54 63 85 184 221 223 248 263
 264 278 280 283 306 321 324 349 350
 369 370 372 392 393-394 395 421 425
 439 444 473 493 494 497 518 520 537
 539 542 543 545 549 571 597 599 601
 623 624 648 649 675 676 706
Ovalisia sp. a buprestid beetle 86 817
Oystershell scale Lepidosaphes ulmi

 SLUGS & SNAILS

Otala sp. a helicid snail 107 328
Otala lactea 604
Otala vermiculata 630 679 839

 WEEDS

Onopordum acanthium Scotch thistle
 439
Orobancha ramosa hemp broomrape 703

P

 DISEASES

Pallescent leaf spot Curvularia pal-
lescens
 Papaw mosaic virus 351
 Peach phony virus 202
 Peach yellow leaf roll virus 767
 Peanut stunt virus 164
 Pecan downy spot Mycosphaerella
caryigena
 Pelargonium rust Puccinia pelargonii-
zonalis
Pellicularia filamentosa See
Rhizoctonia solani
Penicillium spp. penicillium ear rots
 693 718 759 777 792 793 808 815 821
 846 858

Peronospora manshurica soybean downy mildew 563 589 618 641 667 698 721 743 762 797 810 815 823
Peronospora trifoliorum alfalfa downy mildew 295 317 412
Phaeocryptopus gaumanni Swiss needle-cast 853
Phakopsora gossypii 163
Phakopsora pachyrhizi soybean rust
Phaseoli bean blight Xanthomonas phaseoli
Phaseolicola halo blight Pseudomonas phaseolicola
Phialophora gregata brown stem rot 617 699 721 744 763 797 811 815 823 851 858 870
Phleospora pistaciae a fungus 879
Phoma cryptomeriae cryptomeria needle blight 18
Phoma medicaginis spring black stem 193 243 295-296 316-317
Phomopsis sp. a fungus 355
Phomopsis juniperovora juniperovora twig blight 226
Phomopsis orchidophila a fungus 355
Phyllosticta sp. a leaf spot 107
Phyllosticta leaf spot Phyllosticta sojaecola
Phyllosticta sojaecola phyllosticta leaf spot 641 667
Phyllostictina musarum a fungus 656
Physoderma alfalfae alfalfa crown wart 531 549
Physoderma maydis corn brown spot 557 613
Phytophthora infestans potato and tomato late blight 621
Phytophthora megasperma phytophthora root rot 563 618
Phytophthora megasperma var. sojae phytophthora root and stem rot 627 641 642 698 722 744 763
Phytophthora phaseoli lima bean downy mildew 836
Phytophthora root rot Phytophthora megasperma
Phytophthora root and stem rot Phytophthora megasperma var. sojae
 Pine tip blight Diplodia pinea
 Pitch canker 229
Podosphaera leucotricha apple (leucotricha) powdery mildew 219
 Potato and tomato late blight
Phytophthora infestans
 Potato cyst nematode Globodera pallida
 Potato virus Y 164
Pratylenchus sp. a root lesion nematode 294
Pseudomonas andropogoni bacterial stripe 507 613 662 693 740
Pseudomonas coronafaciens coronafaciens halo blight 561 587
Pseudomonas glycinea soybean bacterial blight 434 510 532 562 588 618 642 667 699 722 744 764 798 815
Pseudomonas phaseolicola phaseolicola halo blight 568
Pseudomonas syringae wheat leaf necrosis 315 506 527 557 613 636
Pseudomonas tabaci wildfire 722
Pseudomonas tomato tomato bacterial speck 416
Pseudopeziza medicaginis common leaf spot 296
Puccinia aeluropotis a rust 827
Puccinia asparagi asparagus rust 568
Puccinia chondrillina skeletonweed rust 9 286 423
Puccinia chrysanthemi common chrysanthemum rust 812
Puccinia coronata var. avenae oat crown rust 383 485 530 561 586 627 639 666 822 833 847
Puccinia graminis black stem rust 496 544
Puccinia graminis f.sp. avenae oat stem rust 383 496 544 571 597-598 624 649 651 675 824 836
Puccinia graminis f.sp. secalis rye stem rust 496 544
Puccinia graminis f.sp. tritici barley tritici stem rust 1/ 383 392 444 496-497 500 518 544-545 598-599 675
Puccinia graminis f.sp. tritici wheat stem rust 650 651 801
Puccinia hordei barley leaf rust 485 530
Puccinia horiana white chrysanthemum rust 15 137 477 812 815 823 825 879
Puccinia pelargonii-zonalis pelargonium rust 201
Puccinia pitcairniae pitcairniae a rust 173
Puccinia purpurea sorghum leaf rust 692 791
Puccinia recondita wheat leaf rust 339 383-384 433 484-485 530 561 587 616 665 794 822 833 847

1/ Carried as barley stem rust in Vol. 2.

Puccinia sorghi common maize rust 108
 431 507 527 557 583 612-613 634-635
 661 691 716 738-739 758 791 807 815
Puccinia striiformis wheat stripe rust
 383 485
Puccinia tillandsiae 64 282 753
Pucciniastrum areolatum 73
Pyrenophora teres barley net blotch
 315 362
Pyrenophora trichostoma eyespot 315
 338 384 433 530 560 615

INSECTS

Pacific Coast tick Dermacentor occi-
dentalis
 Pacific spider mite Tetranychus
pacificus
 Packard grasshopper Melanoplus
packardii
 Painted lady Vanessa cardui
Palaeocorynus sp. a weevil 225
Palaeopus sp. a weevil 477
Palexorista inconspicua a tachinid fly
 260 265
 Painted leafhopper Endria inimica
Palaecrita vernata spring cankerworm
 69 135 172 197 247 303 347 368
 Pales weevil Hylobius pales
 Pale western cutworm Agrotis
orthogonia
Pandesma anysa a noctuid moth 548 549
Panonychus citri citrus red mite 196
 207 220 322
Panonychus ulmi European red mite 205
 246 261 275 301 320 346 440 441 470
 491 496 538 595 622 647 728 748
Papaipema nebris stalk borer 108 114
 432
Paraclemensia acerifoliella maple
 leafcutter 235
Paracryptocerus pusillus an ant 477
Paraleyrodes naranjæ 22 53 54 199
 200
Paraleyrodes perseæ plumeria whitefly
 199 200
Parallelodiplosis cattleyæ a midge
 328
Paralobesia viteana grape berry moth
 207 208 596
Paramyelois transitella navel orange-
 worm 161 538
Paraprociphilus tessellatus woolly
 alder aphid 238
Paraterellia ypsilon a fruit fly 601

Paratrioza cockerelli potato psyllid
 380 431 691
Parlatoria blanchardi parlatoria date
 scale 552 627 771
Parlatoria crypta an armored scale 880
Parlatoria date scale Parlatoria
blanchardi
Parlatoria fluggeæ 222 223
Parlatoria proteus 729
 Pea aphid Acyrtosiphon pisum
 Peachtree borer Sanninoidea exitiosa
 Peach twig borer Anarsia lineatella
 Pea leaf weevil Sitona lineatus
 Pearleaf blister mite Phytoptus pyri
 Pear psylla Psylla pyricola
 Pear sawfly Caliroa cerasi
 Pea weevil Bruchus pisorum
 Pecan leaf phylloxera Phylloxera
notabilis
 Pecan nut casebearer Acrobasis
nuxvorella
 Pecan phylloxera Phylloxera
devastatrix
 Pecan spittlebug Clastoptera achatina
 Pecan weevil Curculio caryæ
Pectinophora gossypiella pink bollworm
 285 572 600 749 814 855
Pediasia teterrella bluegrass webworm
 696
Pediasia trisecta a sod webworm 1/ 124
 125 619 779
Pediculus humanus capitis head louse
 824
Pediobius foveolatus a eulophid wasp
 148 260 264 319 323 416 473 514 533
 745
Pegomya betæ See Pegomya hyoscyami
Pegomya hyoscyami spinach leafminer
 187 818
Penthaleus major winter grain mite 4
 37 51 67 103 123 134 170 181 193 869
 Pepper weevil Anthonomus eugenii
Peregrinus maidis corn planthopper
 280 371 474 515
Peridroma saucia variegated cutworm
 174 183 272-273 294 297-298 318 319
 337 339 341 344 361 364 381 385 413
 468 514 536 537 559 562 564 567 568
 587 590 593-594 617 695 697 703.
 Light traps: 106 152 162 178 185 200
 224 251 281 309 326-327 353 373 396

1/ Also carried as Crambus trisectus
 in Vol. 2.

424 446 447 475 476 501 521 550 551
 575 576 602 603 628 629 654 655 677
 678 710 711 733 751 752 770 787 803
 816 826 838 849 876
Perilitus coccinellae a braconid wasp
 261 262 473 813 815
Periphyllus aceris 604
Periphyllus tyropictus Norway maple
 aphid 238 493
Petrobia latens brown wheat mite 59
 67 74 83 123 134 147 160 170 181
 183 188 192-193 195 200 215 242 271
 316 414 869
Phaneroptera furcifera Philippine
 katydid 425
Pharoscygnus sp. a lady beetle 786
Pharoah ant Monomorium pharaonis
Philaenus spumarius meadow spittlebug
 136 144 195 200 209 217 245 273 299
 317 318 343 362 364 389
 Philippine katydid Phaneroptera fur-
cifera
Philothalpus analis a staphylinid
 beetle 786
Phlegetonia delatrix a noctuid moth
 876
Phlibostroma quadrimaculatum a grass-
 hopper 422 768
Phloeosinus sp. a scolytid beetle 230
Phloeosinus sp. possibly perlatus 502
Phloeosinus rudis 186 282
Phoetaliotes nebrascensis a grass-
 hopper 444
Phormia regina black blow fly 304
Phryganidia californica California
 oakworm 442
Phryxe pecosensis a tachinid fly 622
Phthorimaea operculella potato tuber-
 worm 174 175
Phyllocoptruta oleivora citrus rust
 mite 207
Phyllotreta cruciferae a chrysomelid
 beetle 345 417 515
Phylloxera devastatrix pecan phyl-
 loxera 202 206 321 346 352 366
Phylloxera notabilis pecan leaf
 phylloxera 219 247
Phytocoptella avellanae filbert bud
 mite 59
Phytomyza vomitoriae a leafminer fly
 52
Phytoptus pyri pearleaf blister mite
 352
Phytoseiulus woodburyi 18
Pieris brassicae large white butterfly
 16 734
Pieris rapae imported cabbageworm
 104 174 175 178 218 300 319-320 474
 852
 Pigeon fly Pseudolynchia canariensis
 Pine colaspis Colaspis pini
 Pine needle scale Chionaspis pini-
foliae
 Pine spittlebug Aphrophora parallela
 Pine tortoise scale Toumeyella
parvicornis
Pineus pini Eurasian pine adelgid
 796 856 876
 Pink bollworm Pectinophora gossypiella
 Pink scavenger caterpillar Sathrobrotia
rileyi
 Pinkstriped oakworm Anisota virginien-
sis
Pinnaspis aspidistrae fern scale 6
 492 873 877
Pissodes sp. 201 310
Pissodes notatus banded pine weevil
 771
Pissodes pini 16
Pissodes strobi white pine weevil 276
 347 367
Pityogenes chalcographus a scolytid
 beetle 40
Pityophthorus scriptor a scolytid
 beetle 824 825
Placosternus sp. a cerambycid beetle
 86
Plagiodera arizonae a chrysomelid
 beetle 596
Planococcus citri citrus mealybug
 6 70 419 425
Plathypena scabra green cloverworm 194
 217 244 273 298 435 486 509 510 531
 532 536 564 589 594 617 619 642 643
 666 668 669 699-700 720 723 744-745
 764 796 799 807 834
Platynota stultana a tortricid moth
 208 301 595
Platyphoptus sabinianae an eriophyid
 mite 6
Platyptilia pica pica a plume moth 347
Plemeliella abietina a gall midge 282
Plodia interpunctella Indian meal moth
 259 674
Plum curculio Conotrachelus nenuphar
 Plumeria whitefly Paraleyrodes perseae
 Plum fruit moth Grapholitha funebrana
 Plum gouger Coccotorus scutellaris
Plutella xylostella diamondback moth
 174 175 178 249 274 371 474 515 548
 745

Podisus maculiventris spined soldier bug 184
Podosesia syringae lilac borer 236
Polydesma umbricola monkeypod moth 417
Polygraphus poligraphus a bark beetle 173 448
Polyphagotarsonemus latus broad mite 136 395 573 594 786 875
Popillia japonica Japanese beetle 248 279 370 394 422 445 474 498-499 519 547 549 572 582 625 651 676 749 855
Poplar tentmaker Ichthyura inclusa
Potato aphid Macrosiphum euphorbiae
Potato leafhopper Empoasca fabae
Potato psyllid Paratrioza cockerelli
Potato tuberworm Phthorimaea operculella
Premnotrypes sp. a weevil 282
Pristiphora erichsonii larch sawfly 233 389
Pristiphora geniculata mountain ash sawfly 237
Privet aphid Myzus ligustri
Procecidochares alani a tephritid fly 12 652 876
Prosimulium spp. black flies 258 277
Prosimulium fuscum 348 472
Prosimulium mixtum 277 305 348 472
Prospalta dolorosa a noctuid moth 707 708
Prospaltella opulenta a eulophid wasp 264
Pseudaletia unipuncta armyworm 1/ 87 88 90-91 169 181 191 213 269 291 313 335 336 359-360 379 407 429 461 481 505 525 532 555 559 563 594 611 715 737 738 764. Light traps: 106 152 161 185 200 224 251 281 309 326-327 353 354 373 396 424 446 447 475 476 501 521 550 551 575 576 602 603 628 629 654 655 677 678 710 711 733 751 752 770 787 803 816 826 838 849 876
Pseudaonidia duplex an armored scale 853 857
Pseudaonidia paeoniae 22
Pseudaonidia trilobitiformis 712
Pseudatomoscelis seriatus cotton fleahopper 152 319 344 387 415 438 467 489 513 535 566
Pseudaulacaspis cockerelli an armored scale 227 419 729 872 877

Pseudaulacaspis pentagona white peach scale 204 673 676 871 873 878
Pseudobaris nigrina a weevil 468 469
Pseudocneorhinus bifasciatus a Japanese weevil 22
Pseudococcus n.sp. 856 857
Pseudococcus comstocki comstock mealybug 9 278 324
Pseudococcus longispinus longtailed mealybug 6
Pseudococcus obscurus 573
Pseudococcus sorghiellus 68 72
Pseudolynchia canariensis pigeon fly 7 13
Pseudomyrmex gracilis mexicanus an ant 22 671
Pseudoparlatoria ostreata an armored scale 569
Pseudoparlatoria parlatorioides 853 871 877
Pseudoplusia includens soybean looper 643 669 723 745 764 782 799 812
Psila rosae carrot rust fly 187
Psorophora spp. mosquitoes 254
Psychomorpha epimenis a noctuid moth 388
Psylla pyricola pear psylla 22 55 161 183 202 203-204 320 352 366 388 440 491 595 605 728 871
Pulvinaria acericola a soft scale 516 520
Pulvinaria ericicola 22
Pulvinaria innumerabilis cottony mapl scale 323
Puncturevine seed weevil Microlarinus laerynii
Puncturevine stem weevil Microlarinus lypriformis
Puto barberi a mealybug 310
Pycnotomina cavicolle a rhizophagid beetle 549
Pygmephorus primitivus a pygmephorid mite 18
Pyrrhalta luteola elm leaf beetle 84 220 236-237 276 303 323 348 442 492 784
Pyrrhidium sanguineum a cerambycid beetle 448

WEEDS

Panicum miliaceum proso millet 382 514
 Proso millet Panicum miliaceum

1/ Carried as Cirphis unipuncta in error in Vol. 2.

Q

DISEASES

Quince rust Gymnosporangium clavipes

INSECTS

Quadraspidiotus juglansregiae walnut scale 853 858

Quadraspidiotus ostreaeformis European fruit scale 104 106

Quadraspidiotus perniciosus San Jose scale 5 196 202 204 852 858

R

DISEASES

Radopholus similis burrowing nematode 283

Ramulispora sorghi sooty stripe 613 636 662 792

Red ear rot Gibberella (Fusarium) roseum f.sp. cerealis

Rhabdocline needle blight Rhabdocline pseudotsugae

Rhabdocline pseudotsugae rhabdocline needle blight 230

Rhizoctonia sp. 812

Rhizoctonia root and stem rot

Rhizoctonia solani

Rhizoctonia solani rhizoctonia root and stem rot 1/ 588 618 627 781

Rickettsia rickettsi Rocky Mountain spotted fever 277 253 259 648

Rocky Mountain spotted fever Rickettsia rickettsi

A root rot 176 177

Roseum rot Gibberella (Fusarium) roseum f.sp. cerealis

Rye stem rust Puccinia graminis f.sp. secalis

INSECTS

Raisin moth Cadra figulilella

1/ Carried as Pellicularia filamentosa filamentosa root and stem rot, pellicularia root and stem rot and Thanatephorus cucumeris thanatephorus root and stem rot, cucumeris rot in Vol. 2.

Range caterpillar Hemileuca oliviae
Raspberry cane borer Oberia bimaculat
Redbacked cutworm Euxoa ochrogaster
Redbanded leafroller Argyrotaenia velutinana

Red imported fire ant Solenopsis invicta

Redlegged grasshopper Melanoplus femurrubrum

Rednecked peanutworm Stegasta bosqueella

Resseliella sp. a cecidomyiid fly 656

Reticulitermes flavipes eastern subterranean termite 172 184 259

Reticulitermes hesperus western subterranean termite 874

Rhagoletis alternata a tephritid fly 860

Rhagoletis cerasi European cherry fruit fly 604 788

Rhagoletis cingulata cherry fruit fly 366

Rhagoletis completa walnut husk fly 207 538 595 647

Rhagoletis fausta black cherry fruit fly 440

Rhagoletis indifferens western cherry fruit fly 205 388 440 516 538

Rhagoletis mendax blueberry maggot 209

Rhagoletis pomonella apple maggot 202 205 470 491 516 538 595

Rhinocyllus conicus a weevil 261 349 392 444 571

Rhipicephalus sanguineus brown dog tick 84 184 259

Rhizaspidiotus dearnessi an armored scale 6 13

Rhizoecus americanus a mealybug 441

Rhizoecus floridanus 22

Rhizotrogus solstitialis summer chafe 577

Rhododendron borer Synanthedon rhododendri

Rhopalosiphoninus latysiphon 75-77 79 105 106

Rhopalosiphoninus kelleri an aphid 75-78 80

Rhopalosiphoninus solani 75 76 78

Rhopalosiphoninus staphyleae 75 76 78 79

Rhopalosiphoninus staphyleae tulipaeillus 75 76 78

Rhopalosiphum maidis corn leaf aphid 87 94 96 120 169 261 292 336 379 408

420 430 462 481-482 505-506 526 556

Rhopalosiphum padi 4 51 59 67 83 95
 122 123 133 159 162 170 192 214 242
 294 305 380 434 465 482 506 848 869
Rhyacionia buoliana European pine
 shoot moth 232 276 347 367 516-517
 520 570 574
Rhyacionia frustrana Nantucket pine
 tip moth 135 276 302 347 873
Rhynchaenus fagi a weevil 374
Rhyncolus porcatus a weevil 225
 Rice stalk borer Chilo plejadellus
 Rice stink bug Oebalus pugnax
 Rice water weevil Lissorhoptrus
oryzophilus
 Rosy apple aphid Dysaphis plantaginea
 Roundheaded apple tree borer Saperda
candida

SLUGS & SNAILS

Rumina decollata a subulinid snail
 22 367 372

WEEDS

Rush skeletonweed Chondrilla juncea

S

DISEASES

Scleroderris canker Gremmeniella
abietina
Scleroderris lagerbergii See
Gremmeniella abietina
Sclerophthora macrospora grass downy
 mildew 339
Sclerotinia crown and stem rot
Sclerotinia sclerotiorum
Sclerotinia sclerotiorum sclerotinia
 crown and stem rot 243 317
Sclerotinia sclerotiorum sclerotiorum
 blight 802
Sclerotinia sclerotiorum sclerotiorum
 rot 722 744
Sclerotinia trifoliorum See
Sclerotinia sclerotiorum
Sclerotium blight Sclerotinia
sclerotiorum
Sclerotium rot Sclerotinia
sclerotiorum
 Seed purple stain Cercospora kikuchii
Septoria glycines soybean brown spot
 563 588 617 640-641 667 697-698 721
 742-743 762 797 802 810 815

Septoria leaf spot Septoria
lycopersici
Septoria lycopersici septoria leaf
 spot 514
Septoria tritici speckled leaf blotch
 242 293 315-316 338 384 848
 Shoestring root rot Armillaria mellea
 Skeletonweed rust Puccinia chondrilla
lina
 Smooth-spored bunt Tilletia foetida
 Soil-borne wheat mosaic virus 133 170
 192 384 696 708
 Sooty stripe Ramulispora sorghi
 Sorghum bacterial streak Xanthomonas
holicola
 Sorghum leaf rust Puccinia purpurea
 Southern leaf blight Helminthosporium
maydis
 Southwestern dwarf mistletoe Arceuthobium vaginatum f. cryptopodum
 Soybean bacterial blight Pseudomonas
glycinea
 Soybean brown spot Septoria glycines
 Soybean cyst nematode Heterodera
glycines
 Soybean downy mildew Peronospora
manshurica
 Soybean (glycines) anthracnose
Glomerella glycines
 Soybean mosaic virus 589 642 668 699
 723 744 811 851 618
 Soybean pod and stem blight Diaporthe
phaseolorum var. sojae
 Soybean rust Phakopsora pachyrhizi
 Soybean stem canker Diaporthe phase-
olorum var. caulivora
 Soybean (truncata) anthracnose
Colletotrichum dematium var. truncata
 Speckled leaf blotch Septoria tritici
Sphaceloma punicea a fungus 73
Sphenospora kevorkianii a rust 753
 Spring black stem Phoma medicaginis
 St. Louis encephalomyelitis
 virus 674 730 784
 Stewart's wilt Erwinia stewartii
Stigmata oblecta a fungus 477
 Stone fruit bacterial spot
Xanthomonas pruni
 Sugar beet nematode Heterodera
schachtii
 Sugar maple decline cause unknown
 229
 Summer black stem Cercospora zebrina
 Sweet orange scab Elsinoe australis
 Swiss needlecast Phaeocryptopus
gaumannii
 Sycamore anthracnose Gnomonia platani

INSECTS

- Saddled prominent Heterocampa guttivitta
Saissetia coffeae hemispherical scale 5 419 873 878
Saltmarsh caterpillar Estigmene acrea
Saltmarsh mosquito Aedes sollicitans
Sandhill cutworm Euxoa detersa
San Jose scale Quadraspidiotus perniciosus
Sanninoides exitiosa peachtree borer 202 203 440
Saperda sp. a cerambycid beetle 107
Saperda candida roundheaded appletree borer 301
Saperda scalaris 656
Sardia pluto a delphacid planthopper 11 13
Sathrobrota rileyi pink scavenger caterpillar 778
Satin moth Leucoma salicis
Sawtoothed grain beetle Oryzaephilus surinamensis
Scaphoideus densus a leafhopper 22
Scaphoideus incisus 22
Scaphoideus opalinus 22
Schedorhinotermes sp. a termite 860
Schizaphis graminum greenbug 3 37 51 59 67 83 87 94-97 103 120 122 133 135 159 169 181 191-192 213 241 261 262 269 292 305 314 336 349 360 369 380 408 430 462 482 506 526 527 543 556 571 581-582 611 612 634 649 660 675 690 758 775 831 845 867-868
Scirtes sp. a helodid beetle 23
Scirtothrips citri citrus thrips 207
Scolytus intricatus a scolytid beetle 771
Scolytus multistriatus smaller European elm bark beetle 54 62 85 222 236 247 279 324 350 368 372 492 673 676
Scolytus rugulosus shothole borer 183 388
Scotothrips claripennis a thrips 18
Screwworm Cochliomyia hominivorax
Scutigerella immaculata garden symphy-tan 363
Scyphophorus acupunctatus a weevil 23
Scyphophorus yuccae 37 38
Seedcorn maggot Hylemya platura
Sericothrips variabilis soybean thrips 386 436
Sesamia nonagrioides a noctuid moth 201
Sheep bot fly Oestrus ovis
Shirahoshizo sp. a weevil 64 163
Shirahoshizo insidiosus 201
Shortnosed cattle louse Haematopinus eurysternus
Shothole borer Scolytus rugulosus
Silba virescens a lonchaeid fly 630
Silverspotted tiger moth
Halisidota argentata
Silver-Y moth Autographa gamma
Simulium spp. black flies 258
Simulium venustum 305 348 391 472 518
Simulium vittatum 258
Sipalus gigas a weevil 56 186 397
Sipha flava yellow sugarcane aphid 96 108 120 192 270 382 464 611
Sirex sp. a siricid wasp 355
Sirex noctilio 522 712
Sitona cylindricollis sweetclover weevil 297
Sitona hispidulus clover root curculio 486
Sitona lineatus pea leaf weevil 176 177 217
Sitotroga cerealella Angoumois grain moth 493
Sixspotted mite Eotetranychus sexmaculatus
Small bandedwing grasshopper
Oedaleus abruptus
Smaller European elm bark beetle
Scolytus multistriatus
Solanaceous treehopper Antianthe expansa
Solenopsis invicta (red imported fire ant 10 172 222 223 283 307 321 325 855
Solenopsis richteri black imported fire ant 283
Solitary oak leafminer (Cameraria hamadryadella)
Sorghum midge Contarinia sorghicola
Sorghum webworm Celama sorghiella
Southern armyworm Spodoptera eridania
Southern chinch bug Blissus insularis
Southern corn rootworm Diabrotica undecimpunctata howardi
Southern garden leafhopper Empoasca solana
Southern green stink bug Nezara viridula
Southern masked chafer Cyclocephala immaculata

Southern pine beetle Dendroctonus frontalis
 Southern potato wireworm Conoderus falli
 Southern red mite Oligonychus ilicis
 Southwestern corn borer Diatraea grandiosella
 Soybean looper Pseudoplusia includens
 Soybean thrips Sericothrips variabilis
Spaelotis clandestina w-marked cutworm 23
Spangbergiella quadripunctata a leafhopper 53 54
Sparganothis sulfureana a tortricid moth 208
Spharagemon collare a grasshopper 836
Sphenophorus callosus a weevil 108 119 169 315 362 508
Sphenophorus cicatristriatus 23
Sphenophorus maidis maize billbug 108 119 293 315 362
Sphenophorus parvulus bluegrass billbug 125 271 465 795
Sphenophorus phoeniciensis 848
Sphenophorus venatus venatus 720 732
Sphenophorus zeae 119
 Spider mite destroyer Stethorus picipes
 Spinach leafminer Pegomya hyoscyami
 Spined soldier bug Podisus maculiventris
 Spiny bollworm Earias insulana
Spissistilus festinus threecornered alfalfa hopper 299 487 509 564 589 721 851
Spodoptera eridania southern armyworm 584 590
Spodoptera exigua beet armyworm 12 108 112 113 164 174 270 299 336 344 365 436 437 439 466 468 487 499 510 511 525 532 533 563 564 566 581 584 589 590 593 617 618 619 633 639 640 643 645 659 669 690 694 696 697 700 702 704 715 723 727 737 738 745 764 765 783 795 800. Light traps: 152 162 185 200 224 251 281 326 353 373 396 424 446 475 501 521 550 575 602 628 654 677 710 733 751 770 787 803 816 826 838 849 876

Spodoptera frugiperda fall armyworm 88 90 92 93 108 112 113 121 122 123 124 138 143 147 149 181 192 214 241 360 362 381 432 464 481 507 508 510 511 525 528 533 558-559 561 563 564 584 587 589 590 592 593 611 614 616 618 619 620 633 637-638 639 640 643 645 659 660 663-664 666 668 669 670-671 689-690 694 695 696 697 700 702 703 715 718 719-720 723 726 737 738 740 741 742 745 747 757 758 760 761 764 767 778 779 793 794 795 800 808 809 833 848 867. Light traps: 224 251 281 396 446 475 501 521 550 551 575 602 628 654 655 677 678 710 733 751 752 770 787 803 816 826 838 849 876
Spodoptera litura Egyptian cottonworm 310 630
Spodoptera mauritia lawn armyworm 73 880
Spodoptera ornithogalli yellowstriped armyworm 112 147 214 274 381 432 510 529 563 584 590 618 619 633 664 737 757 764 778. Light traps: 200 251 281 309 326 353 373 396 424 446 447 475 476 501 521 550 551 575 576 602 628 654 655 676 677 678 710 733 751 752 770 787 803 816 826 838 849
Spodoptera pecten a noctuid moth 679 804
Spodoptera praeifica western yellow-striped armyworm 697
 Spotted alfalfa aphid Therioaphis maculata
 Spotted asparagus beetle Crioceris duodecimpunctata
 Spotted cutworm Amathes c-nigrum
 Spring cankerworm Paleacrita vernata
 Spruce aphid Elatobium abietinum
 Spruce beetle Dendroctonus rufipennis
 Spruce budworm Choristoneura fumiferana
 Spruce needleminer Taniva albolineana
 Spruce spider mite Oligonychus ununguis
 Squash bug Anasa tristis
 Squash vine borer Melittia cucurbitae
 Stable fly Stomoxys calcitrans
 Stalk borer Papaipema nebris
Stegasta bosqueella rednecked peanutworm 487 590 619 724 765
Steneotarsonemus pallidus cyclamen mite 226 227
Stenoma catenifer avocado seed moth 16 107 282 397

Stephanitis pyrioides azalea lace bug
 12 23
Stephanopachys sp. a bostrichid beetle
 753
Stephanopachys quadricollis 397
Stethorus picipes spider mite des-
 troyer 260 261
Stomoxys calcitrans stable fly 198
 253 257 304 442 623 674 749
 Strawberry crown moth Synanthedon
bibionipennis
 Strawberry root weevil Otiorhynchus
ovatus
 Strawberry spider mite Tetranychus
turkestanii
 Strawberry weevil Anthonomus signatus
 Striped cucumber beetle Acalymma
vittata
 Striped horse fly Tabanus lineola
 Striped mealybug Ferrisia virgata
 Sugarbeet root maggot Tetanops
myopaeformis
 Sugarcane beetle Euetheola rugiceps
 Sugarcane borer Diatraea saccharalis
Suleima helianthana an olethreutid
 moth 438 567
 Summer chafer Rhizotrogus solsti-
tialis
 Sunflower beetle Zygogramma
exclamationis
 Sunflower moth Homoeosoma electellum
Supella longipalpa brownbanded
 cockroach 27
 Sweetclover weevil Sitona cylindri-
collis
 Sweetpotato leafminer Bedellia
orchilella
 Sweetpotato vine borer Omphisa
anastomosalis
 Sweetpotato weevil Cylas formicarius
elegantulus
Symmerista spp. notodontid moths 234
Synanthedon bibionipennis strawberry
 crown moth 207 208
Synanthedon pictipes lesser peachtree
 borer 202 203 366
Synanthedon rhododendri rhododendron
 borer 23
Synanthedon tipuliformis currant
 borer 418
Syndyas polita an empidid fly 813
 815
Syrbula admirabilis a grasshopper
 422 498 768

Symmococcus spirapunctus a mealybug
 23
Systema frontalis a chrysomelid
 beetle 508 724
Systema marginalis 492

SLUGS & SNAILS

Succinea horticola a succinid snail
 577

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Scotch thistle Onopordum acanthium
 Shrub nightshade Solanum robustum
Solanum carolinense horsenettle 837
Solanum robustum shrub nightshade
 765 769
 Spikeweed Centromadia pungens
 Spotted knapweed Centaurea maculosa
Striga lutea witchweed 286

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DISEASES

Take-all Gaeumannomyces graminis var.
tritici
 Target spot Corynespora cassiicola
 Tenuissima leaf spot Alternaria
tenuissima
Thecaphora solani a fungus 56
Thielaviopsis basicola thielaviopsis
 root rot 1/ 563
Thielaviopsis root rot Thielaviopsis
basicola
Tilletia foetida smooth-spored bunt
 433
 Tingens branch and trunk canker
Atropellis tingens
 Tobacco etch virus 164
 Tobacco ringspot virus 699 723 744
 764 781 811 823 851 858
 Tobacco vein-mottling virus 164
 Tomato bacterial speck Pseudomonas
tomato
Trichodorus porosus a stubby-root
 nematode 171
Tylenchorhynchus sp. a stylet nema-
 tode 294

1/ Carried as black root rot in Vol.
 2.

INSECTS

Tabanus aar a tabanid fly 887 889
Tabanus atratus fulvopilosus 889
Tabanus atratus nantuckensis 887 889
Tabanus calens 889
Tabanus fulvulus 889
Tabanus gladiator 889
Tabanus lineola striped horse fly 887 889
Tabanus maculipennis 443
Tabanus melanocerus 889
Tabanus molestus molestus 889
Tabanus mularis 890
Tabanus nigrescens 889
Tabanus nigrovittatus 887 889 890
Tabanus petiolatus 890
Tabanus productus 570
Tabanus pumilus 890
Tabanus punctifer 570
Tabanus quinquevittatus 785 786 887 890
Tabanus sackeni 890
Tabanus sparus probably milleri 890
Tabanus subsimilis 1/ 887 890
Tabanus subsimilis subsimilis See Tabanus subsimilis
Tabanus sulcifrons 887 890
Tabanus turbidus 890
Taeniothrips eucharis 734
Taeniothrips simplex gladiolus thrips 226 227 474
Taniva albolineana spruce needle-miner 220 347
Taphrorychus sp. a scolytid beetle 827
Taphrorychus villifrons 839
Tarnished plant bug Lygus lineolaris
Tea scale Fiorinia theae
Terrapin scale Lecanium nigrofasciatum
Tessellated scale Eucalymnatus tessellatus
Tetanops myopaeformis sugarbeet root maggot 812
Tetraleurodes mori mulberry whitefly 837
Tetraleurodes perileuca 492
Tetraleurodes ursorum 470
Tetranychus spp. 149

Tetranychus cinnabarinus carmine spider mite 11 70 136 325 395 515 573 621 652 671 814 822 825 856 875
Tetranychus cocosi 161
Tetranychus evansi 621 626
Tetranychus mcdanieli McDaniel spider mite 569
Tetranychus pacificus Pacific spider mite 302 441
Tetranychus turkestani strawberry spider mite 386
Tetranychus urticae twospotted spider mite 108 120-121 147 148 149 172 176 210 227 344 346 388 415 418 440 489 492 496 514 537 569 588 590 595 619 621 622 627 647 665 672 704 799
Tetrastichus incertus a eulophid wasp 25-26 250 308 469 473 840 842
Tetrastichus julis a eulophid wasp 23 250 260 263 284 308 332 349 369 392 393 395 539 540 542 543 571 574 597 626 706 708 709
Tetropium castaneum a cerambycid beetle 73 282
Texas citrus mite Eutetranychus banksi
Therioaphis maculata spotted alfalfa aphid 67 87 98 133 159 169 181 192 214 241 270 292 314 336 337 431 527 582 691 831 845 868
Threecornered alfalfa hopper
Spissistilus festinus
Thrips spp. 149 152
Thrips angusticeps 163
Thrips imaginis apple thrips 860
Thrips major 734 839
Thrips nigropilosus chrysanthemum thrips 227
Thrips obscuratus 40
Thrips tabaci onion thrips 12 307 724 875
Thyridopteryx ephemeraeformis bagworm 226 347 389
Tinocallis caryaefoliae black pecan aphid 206 207 247
Tipula paludosa European crane fly 412
Tmetothrips subapterus a thrips 19
Tobacco budworm Heliothis virescens
Tobacco flea beetle Epitrix hirtipennis
Tobacco hornworm Manduca sexta
Tobacco thrips Frankliniella fusca
Tomato fruitworm Heliothis zea
Tomato hornworm Manduca quinqueaculata

1/ Carried as Tabanus subsimilis subsimilis in Vol. 2.

Tomato pinworm Keiferia lycopersicella
 Tomato russet mite Aculops lycopersici
Tomiscus piniperda a scolytid beetle
 86 374 477 860
Toumeyella liriodendri tuliptree scale
 10 53
Toumeyella parvicornis pine tortoise
 scale 68 72
Toumeyella pini 23
Trachyrhachys kiowa a grasshopper 498
 675 814
Trialeurodes abutilonea bandedwing
 whitefly 152 300 513 729 851
Trialeurodes vaporariorum greenhouse
 whitefly 12 70 307 325 417 449-458
 515 548 570 727 729 852 871 875
Trichodes ornatus a clerid beetle
 261
Trichogramma maltbyi a minute egg
 parasite 706 708 709
Trichoplusia ni cabbage looper 178
 217 344 345 365 490 515 566 594 643
 645 669 671 723 727 747 757 764 767
 783 796 852. Light traps: 106 200 224
 251 281 309 326-327 354 373 396 424
 446 447 475 476 501 521 550 551 575
 576 602 628 654 655 677 678 710 711
 733 751 752 770 787 803 816 826 838
Trioxa tripunctata a psyllid 872 878
Trirhabda attenuata a chrysomelid
 beetle 508
Trogoderma granarium khapra beetle 16
 64 86 107 137 397 477 502 552 630 804
 817 839
Tropidosteptes pacificus a plant bug
 23 471
Tsugaspidiotus pseudomeyeri an armored
 scale 328
 Tuber flea beetle Epitrix tuberis
 Tuliptree aphid Macrosiphum lirio-
dendri
 Tuliptree scale Toumeyella liriodendri
 Twolined chestnut borer Agrilus
bilineatus
 Twospotted spider mite Tetranychus
urticae
 Twostriped grasshopper Melanoplus
bivittatus
Thyphlocyba pomaria white apple leaf-
 hopper 205 320
Thyphlodromus fallacis a phytoseiid
 mite 496 627
Tyria jacobaeae a cinnabar moth 260
Tyrophagus dimidiatus an acarid mite
 104

Tytthus mundulus cane leafhopper egg
 sucker 280 515

SLUGS & SNAILS

Theba pisana white garden snail 16
 173 186 282 712 804

WEEDS

Tanglehead Heteropogon contortus
 Texas blueweed Helianthus ciliaris

U

DISEASES

Uredo sp. a rust 186 753 804
Uredo anthurii 64 163
Uredo nidularii 604 656
Uredo rubescens 630
Uromyces phaseoli var. typica bean
 rust 704
Uromyces striatus var. medicaginis
alfalfa rust 531 822 834 849
Uromyces vicia fabae 56 137
Ustilago avenae oat loose smut 121
 433 485
Ustilago maydis common smut 431 507
 527 557 583 613 635 661 692 716-
 717 739 758 791 815 821 831
Ustilago nuda loose smut 121 411 485
 530 561 587

INSECTS

Udea ferrugalis a pyralid moth 788
Udea profundalis false celery leaf-
 tier 164 783
Unaspis euonymi euonymus scale 226
Uranotaenia anhydor a mosquito 250
 253
Uroplata girardi lantana hispid 499

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DISEASES

Venturia inaequalis apple scab 183
 195 202 219 440 569
Verticillidiella wagnerii black stain
 root disease 230

INSECTS

Vanda thrips Dichromothrips corbeti
Vanessa cardui painted lady 536
Variegated cutworm Peridroma saucia
Vegetable leafminer Liriomyza munda
Vegetable weevil Listroderes costirostris obliquus
Velvetbean caterpillar Anticarsia gemmatilis
Vespa crabro germana giant hornet 226
Vespula sp. a vespid wasp 706
Vespula germanica 250
Vetch bruchid Bruchus brachialis
Vexans mosquito Aedes vexans
Vinsonia stellifera a soft scale 16 137
Violet sawfly Ametastegia pallipes
Vitacea polistiformis grape root borer 51 196 470

SLUGS & SNAILS

Vaginulus occidentalis a veronicellid slug 839
Veronicella moreleti a veronicellid slug 86

WEEDS

Velvetleaf Abutilon theophrasti

W

DISEASES

Western equine encephalomyelitis virus 648 674
Wheat leaf necrosis Pseudomonas syringae
Wheat leaf rust Puccinia recondita
Wheat leaf spot Helminthosporium tritici-vulgaris
Wheat powdery mildew Erysiphe graminis f.sp. tritici
Wheat stem rust Puccinia graminis f.sp. tritici
Wheat streak mosaic virus 293 316 583 696 708
Wheat stripe rust Puccinia striiformis
White chrysanthemum rust Puccinia horiana
White pine blister rust Cronartium ribicola
Wildfire Pseudomonas tabaci

INSECTS

Wahlgreniella nervata an aphid 75
Walkingstick Diapheromera femorata
Walnut aphid Chromaphis juglandicola
Walnut caterpillar Datana integer-rima
Walnut husk fly Rhagoletis completa
Walnut scale Quadraspidiotus juglansregiae
Western bean cutworm Loxagrotis albicosta
Western cherry fruit fly Rhagoletis indifferens
Western corn rootworm Diabrotica virgifera
Western drywood termite Incisitermes minor
Western flower thrips Frankliniella occidentalis
Western grapeleaf skeletonizer Harrisina brillians
Western oak looper Lambdina fiscellaria somnaria
Western pine beetle Dendroctonus brevicomis
Western spotted cucumber beetle Diabrotica undecimpunctata undecimpunctata
Western spruce budworm Choristoneura occidentalis
Western subterranean termite Reticulitermes hesperus
Western tent caterpillar Malacosoma californicum
Western tussock moth Orgyia vetusta
Western wheat aphid Brachycolus tritici
Western yellowstriped armyworm Spodoptera praefica
West Indian sugarcane root borer Diaprepes abbreviatus
West Indian sweetpotato weevil Euscepes postfasciatus
Wheat head armyworm Faronta diffusa
Wheat stem maggot Meromyza americana
White apple leafhopper Typhlocyba pomaria
White peach scale Pseudaulacaspis pentagona

White pine aphid Cinara strobil
 White pine weevil Pissodes strobil
 Willow shoot sawfly Janus abbrevia-
tus
 Winter grain mite Penthaleus major
 Winter moth Operophtera brumata
 Winter tick Dermacentor albipictus
 W-marked cutworm Spaelotis
clandestina
 Woolly alder aphid Paraprociophilus
tessellatus
 Woolly apple aphid Eriosoma lanigerum
 Woolly whitefly Aleurothrixus
floccosus

SLUGS & SNAILS

White garden snail Theba pisana

WEEDS

White cockle Lychnis alba
 Witchweed Striga lutea

X

DISEASES

Xanthomonas sp. cancrrosis B 502
Xanthomonas alfalfae alfalfa
 bacterial leaf spot 640 742
Xanthomonas citri citrus canker
 173 252
Xanthomonas holcicola sorghum
 bacterial streak 613 662 693 793
Xanthomonas phaseoli phaseoli bean
 blight 646
Xanthomonas phaseoli var. sojense
 bacterial pustule 562 588 618 642
 723 744 781 798
Xanthomonas pruni stone fruit
 bacterial spot 622
Xyleborus eurygraphus a scolytid
 beetle 16
Xyleborus ferrugineus 7 13
Xyleborus interjectus 222 223
Xyleborus validus 19 40
Xyletinus peltatus an anobiid
 beetle 39
Xylocrius agassizi a cerambycid
 beetle 748
Xylosandrus compactus black twig
 borer 23 249
Xylotrechus rusticus a cerambycid
 beetle 577

Y

DISEASES

Yellow mold Aspergillus flavus

INSECTS

Yellowmargined leaf beetle
Microtheca ochroloma
 Yellow peach moth Dichocrocis
punctiteralis
 Yellowstriped armyworm
Spodoptera ornithogalli
 Yellow sugarcane aphid Sipha
flava
 Yellow woollybear Diacrisia
virginica

Z

INSECTS

Zebra caterpillar Ceramica picta
Zetzellia mali a phytoseiid mite
 260 265
 Zimmerman pine moth Dioryctria
zimmermani
Zonitis bilineata a blister beetle
 593 601
Zygogramma exclamationis sunflower
 beetle 165 438 468

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